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  - TI (A1) A METHOD FOR MAINTAINING A SEQUENCE OF EVENTS FUNCTION DURING FAILOVER IN A REDUNDANT MULTIPLE LAYER SYSTEM
- OTI (A1) METHODE PERMETTANT DE MAINTENIR UNE SEQUENCE D'EVENEMENTS FONCTIONS LORS D'UNE DEFAILLANCE DAND UN SYSTEME REDONDANT A COUCHES MULTIPLES
- LA ENGLISH (ENG)
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- DT Basic
- CT Cited in the search report
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  - See also references of EPA 0707722
- STG (A1) Publ. Of int. Appl. With int. Search rep
- AB In a process control system having a redundant multi-layer hierarchical structure , each node of a layer being redundant sequence of events inputs are received from field devices by an input/output processor (IOP). The IOP is a digital input sequence of events (DISOE) IOP, the IOP being the lowest layer of the hierarchical structure . The IOP interfaces with a controller at the next layer of the hierarchy. A method for reliably maintaining a sequence of events function during a failover of any of the redundant nodes , comprising the steps of maintaining a log, a circular list, by the local DISOE. The circular list is a rolling log of all sequence of events data for a predefined time period. When a failover occurs, the new primary commands an event recovery. The event recovery process freezes the log and uses the information in the log to recreate the events data. The freeze operation inhibits background purge activity for the log thereby avoiding the deletion of information past the defined time. New events data is still entered in the log. Once the log has been processed the freeze operation is negated. The recreated data is transmitted to the controller in accordance with a predefined protocol, thereby avoiding the loss of any events data as a result of the failover.